

16085 U.S. PTO  
112603

33871US2

031088 U.S. PTO  
10/723355  
112603

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Peter N. Slater, Byron G. Johnson, Edward L. Sughrue, II, and  
Dennis R. Kidd

For: DESULFURIZATION AND NOVEL SORBENTS FOR SAME

**LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Attached hereto for filing in the United States Patent and Trademark  
Office is the patent application identified above. This application contains 0 sheet(s)  
of drawings.

The filing fee has been computed as follows:

Basic Fee	\$770.00
Additional Fees:	
Total Number of claims (whether independent or dependent over 20, times \$18.00	000.00
Number of independent claims over 3, times \$86.00	000.00
Multiple Dependent Claims (\$290)	000.00
<b>TOTAL Filing Fee</b>	<b>770.00</b>

Please charge Deposit Account 16-1575 in the amount of the total  
filing fee stated above. The Commissioner is hereby authorized to charge any  
additional fees which may be required under 37 CFR 1.16 or 37 CFR 1.17, or credit

any overpayment, to Deposit Account 16-1575, but is not authorized to charge any fee provided for under 37 CFR 1.18.

If the Examiner wishes to contact representatives of record concerning the accompanying application prior to the first Official Action, such contact should be made with the undersigned.

The following references, a copy of each is attached, are called to the Examiner's attention

U.S. 6,254,766 discloses particulate sorbent compositions comprising a mixture of zinc oxide, silica, alumina, and a substantially reduced valence nickel provided for the desulfurization of a feed stream of cracked gasoline or diesel fuels in a desulfurization zone.

U.S. 6,271,173 discloses particulate sorbent compositions, which are suitable for the removal of sulfur from streams of cracked gasoline, or diesel fuel, which have increased porosity and improved resistance to deactivation.

U.S. 6,274,533 discloses novel sorbent systems for the desulfurization of cracked gasoline which are comprised of a bimetallic promoter on a particulate support such as that formed as zinc oxide in an inorganic or organic carrier.

U.S. 5,919,354 discloses a process for reducing the sulfur content of a hydrocarbon stream, wherein a hydrocarbon stream containing sulfur constituents is contacted with a sorbent under temperature and pressure conditions of low severity.

U.S. 5,173,173 discloses a hydrocarbon feedstock simultaneously distilled into two or more fractions while trace concentrations of contaminants in the feedstock are absorbed onto a sorbent packing material during distillation operation.

Respectfully submitted,

RICHMOND, HITCHCOCK,  
FISH & DOLLAR

By Bronwyn A. Welvaert  
Bronwyn A. Welvaert  
Registration No. 52,350

RICHMOND, HITCHCOCK  
FISH & DOLLAR  
P.O. Box 2443  
Bartlesville, OK 74005  
1-918-661-0652

"Express Mail" Mailing Label Number:	<u>EJ322669679US</u>
Date of Deposit:	<u>26 November 2003</u>
I hereby certify that this fee letter is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated and is addressed to the Commissioner for Patents, Alexandria, VA 22313-1450, on	
<u>26 November 2003</u>	
(Date)	
<u>Bronwyn A. Welvaert</u>	
Bronwyn A. Welvaert	



33871US2

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Peter N. Slater, Byron G. Johnson, Edward L. Sughrue, II, and  
Dennis R. Kidd

For: DESULFURIZATION AND NOVEL SORBENTS FOR SAME

"Express Mail" Mailing Label Number: EJ32266967945

Date of Deposit: 26 November 2003

**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I hereby certify that this application is being deposited with the United States  
Postal Service "Express Mail Post Office To Addressee" service under 37 C.F.R. 1.10 on the date  
indicated above and is addressed to the Commissioner for Patents, Alexandria, VA 22313-1450.

Respectfully submitted,

RICHMOND, HITCHCOCK,  
FISH & DOLLAR

By Bronwyn A. Welvaert  
Bronwyn A. Welvaert  
Registration No. 52,350

RICHMOND, HITCHCOCK,  
FISH & DOLLAR  
P.O. Box 2443  
Bartlesville, Oklahoma 74005  
1-918-661-0652